



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

27572 7590 11/16/2009

HARNESSE, DICKEY & PIERCE, P.L.C.  
P.O. BOX 828  
BLOOMFIELD HILLS, MI 48303

EXAMINER

HICKS, CHARLES V

ART UNIT

PAPER NUMBER

2629

DATE MAILED: 11/16/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/587,015

07/21/2006

Masato Nishizawa

9319S-001734/US/NP

1999

TITLE OF INVENTION: CHOLESTERIC LIQUID CRYSTAL DRIVING DEVICE AND DRIVING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

#### I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

27572 7590 11/16/2009

**HARNESS, DICKEY & PIERCE, P.L.C.**  
P.O. BOX 828  
BLOOMFIELD HILLS, MI 48303

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,015	07/21/2006	Masato Nishizawa	9319S-001734/US/NP	1999

TITLE OF INVENTION: CHOLESTERIC LIQUID CRYSTAL DRIVING DEVICE AND DRIVING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/16/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
HICKS, CHARLES V	2629	345-089000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587,015	07/21/2006	Masato Nishizawa	9319S-001734/US/NP	1999
27572	7590	11/16/2009	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			HICKS, CHARLES V	
			ART UNIT	PAPER NUMBER
			2629	
DATE MAILED: 11/16/2009				

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 647 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 647 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/587,015	NISHIZAWA ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	CHARLES HICKS	2629	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendments filed 09/28/2009.
2. ☒ The allowed claim(s) is/are 1 and 2.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____.</li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|---|--|

### **DETAILED ACTION**

This communication is responsive to amendments filed 09/28/2009. Claims 1 and 2 have been amended. Claims 1 and 2 are pending.

#### ***Allowable Subject Matter***

Claims 1 and 2 are allowed.

The following is an examiner's statement of reasons for allowance:

US Patent No. 6,054,974 to Sakai et al. discloses a cholesteric liquid crystal driving device comprising (Sakai, Fig. 34; col. 1, ll. 11-60): a detection circuit for detecting a first scanning line and a second scanning line (Sakai, col. 3, ll. 14-36), wherein, in image data having two or more gray levels to be displayed by a plurality of liquid crystals provided at intersections of a plurality of scanning lines and a plurality of data lines, one part of the image data corresponding to a liquid crystal on the first scanning line has different gray levels other than a halftone and another part of the image data corresponding to a liquid crystal on the second scanning line has the same gray level other than the halftone (Sakai, col. 1, ll. 11-60); a first driving circuit for displaying, on the basis of a detection result for the first scanning line by the detection circuit, the one part of the image data to be displayed by the liquid crystal on each of a plurality of first scanning lines by driving the liquid crystal on each of the plurality of first

Art Unit: 2629

scanning lines in accordance with a first cycle including a reset period, a selection period for selecting the liquid crystal, and a holding period for holding the liquid crystal, and in accordance with a second cycle including a reset period for resetting the liquid crystal, a selection period for selecting the liquid crystal, and a holding period for holding the liquid crystal, which is selected in the (Sakai, col. 10, ll. 44—col. 11, ll. 31), and a second driving circuit for displaying, on the basis of a detection result for the second scanning line by the detection circuit, the other part of the image data to be displayed by the liquid crystal on each of a plurality of second scanning lines by driving the liquid crystal on each of the plurality of second scanning lines in accordance with a third cycle including a reset period for resetting the liquid crystal in the H-orientation and a holding period for holding the liquid crystal, or in accordance with a fourth cycle including a reset period for resetting the liquid crystal, and by collectively selecting and driving the plurality of second scanning lines during each of the reset period and the holding period in the third and fourth cycles or by sequentially selecting and driving the plurality of second scanning lines by shifting by the selection period during each of the reset period and the holding period in the third and fourth cycles (Sakai, col. 10, ll. 44—col. 11, ll. 31).

US Patent No. 6,268,840 to Huang et al. discloses a liquid crystal display device wherein there is sequential selecting and driving the plurality of first scanning lines using a pipeline system such that the selection periods do not overlap with each other during

Art Unit: 2629

each of the reset period, the selection period, and the holding period in the first and second cycles (Huang, Abstract, col. 2, ll. 16-19, col. 7, ll. 20-34).

As to claim 1, the prior art of record fails to teach or suggest a cholesteric liquid crystal driving device comprising: a detection circuit for detecting a first scanning line and a second scanning line, wherein, in image data having two or more gray levels to be displayed by a plurality of cholesteric liquid crystals provided at intersections of a plurality of scanning lines and a plurality of data lines, *the orientation of each of the plurality of cholesteric liquid crystals being defined in a P-orientation, an F-orientation, or an H-orientation in accordance with a voltage between the corresponding scanning lines and the corresponding data lines*, one part of the image data corresponding to a cholesteric liquid crystal on the first scanning line has different gray levels other than a halftone and another part of the image data corresponding to a cholesteric liquid crystal on the second scanning line has the same gray level other than the halftone; *a first driving circuit for displaying, on the basis of a detection result for the first scanning line by the detection circuit, the one part of the image data to be displayed by the cholesteric liquid crystal on each of a plurality of first scanning lines by driving the cholesteric liquid crystal on each of the plurality of first scanning lines in accordance with a first cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation, a selection period for selecting the cholesteric liquid crystal, which is reset in the H-orientation, in a TP orientation, and a holding period for holding the cholesteric liquid crystal, which is selected in the TP orientation, in the F-orientation and in*

Art Unit: 2629

*accordance with a second cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation, a selection period for selecting the cholesteric liquid crystal, which is reset in the H-orientation, in the H-orientation, and a holding period for holding the cholesteric liquid crystal, which is selected in the H-orientation, in the P-orientation and by sequentially selecting and driving the plurality of first scanning lines using a pipeline system such that the selection periods do not overlap with each other during each of the reset period, the selection period, and the holding period in the first and second cycles; and a second driving circuit for displaying, on the basis of a detection result for the second scanning line by the detection circuit, the other part of the image data to be displayed by the cholesteric liquid crystal on each of a plurality of second scanning lines by driving the cholesteric liquid crystal on each of the plurality of second scanning lines in accordance with a third cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation and a holding period for holding the cholesteric liquid crystal, which is reset in the H-orientation, in the F-orientation or in accordance with a fourth cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation, the cholesteric liquid crystal, which is reset in the H-orientation, being transit to the TP orientation at the end of the reset period, and by collectively selecting and driving the plurality of second scanning lines during each of the reset period and the holding period in the third and fourth cycles or by sequentially selecting and driving the plurality of second scanning lines by shifting by the selection period during each of the reset period and the holding period in the third and fourth cycles.*



As to claim2, the prior art of record fails to teach or suggest a cholesteric liquid crystal driving method comprising: a detection step of detecting a first scanning line and a second scanning line, wherein, in image data having two or more gray levels to be displayed by a plurality of cholesteric liquid crystals provided at intersections of a plurality of scanning lines and a plurality of data lines, *the orientation of each of the plurality of cholesteric liquid crystals being defined in a P-orientation, an F-orientation, or an H-orientation in accordance with a voltage between the corresponding scanning lines and the corresponding data lines*, one part of the image data corresponding to a cholesteric liquid crystal on the first scanning line has different gray levels other than a halftone and another part of the image data corresponding to a cholesteric liquid crystal on the second scanning line has the same gray level other than the halftone; *a first driving step of displaying, on the basis of a detection result for the first scanning line by the detection step, the one part of the image data to be displayed by the cholesteric liquid crystal on each of a plurality of first scanning lines by driving the cholesteric liquid crystal on each of the plurality of first scanning lines in accordance with a first cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation, a selection period for selecting the cholesteric liquid crystal, which is reset in the H-orientation, in a TP orientation, and a holding period for holding the cholesteric liquid crystal, which is selected in the TP orientation, in the F-orientation and in accordance with a second cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation, a selection period for selecting the cholesteric liquid*

Art Unit: 2629

*crystal, which is reset in the H-orientation, in the H-orientation, and a holding period for holding the cholesteric liquid crystal, which is selected in the H-orientation, in the P-orientation and by sequentially selecting and driving the plurality of first scanning lines using a pipeline system such that the selection periods do not overlap with each other during each of the reset period, the selection period, and the holding period in the first and second cycles; and a second driving step of displaying, on the basis of a detection result for the second scanning line by the detection step, the other part of the image data to be displayed by the cholesteric liquid crystal on each of a plurality of second scanning lines by driving the cholesteric liquid crystal on each of the plurality of second scanning lines in accordance with a third cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation and a holding period for holding the cholesteric liquid crystal, which is reset in the H-orientation, in the F-orientation or in accordance with a fourth cycle consisting of a reset period for resetting the cholesteric liquid crystal in the H-orientation, the cholesteric liquid crystal, which is reset in the H-orientation, being transit to the TP orientation at the end of the reset period, and by collectively selecting and driving the plurality of second scanning lines during each of the reset period and the holding period in the third and fourth cycles or by sequentially selecting and driving the plurality of second scanning lines by shifting by the selection period during each of the reset period and the holding period in the third and fourth cycles.*

Art Unit: 2629

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHARLES HICKS whose telephone number is 571-270-7535. The examiner can normally be reached on Monday-Thursday from 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz, can be reached on 571-272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Sumati Lefkowitz/  
Supervisory Patent Examiner, Art Unit 2629